

NIMHD UPDATE

**Eighth Health Disparities Conference
Xavier University of Louisiana
College of Pharmacy
New Orleans**

March 13, 2015

Yvonne T. Maddox, Ph.D.

Acting Director, National Institute on Minority Health and Health Disparities (NIMHD)

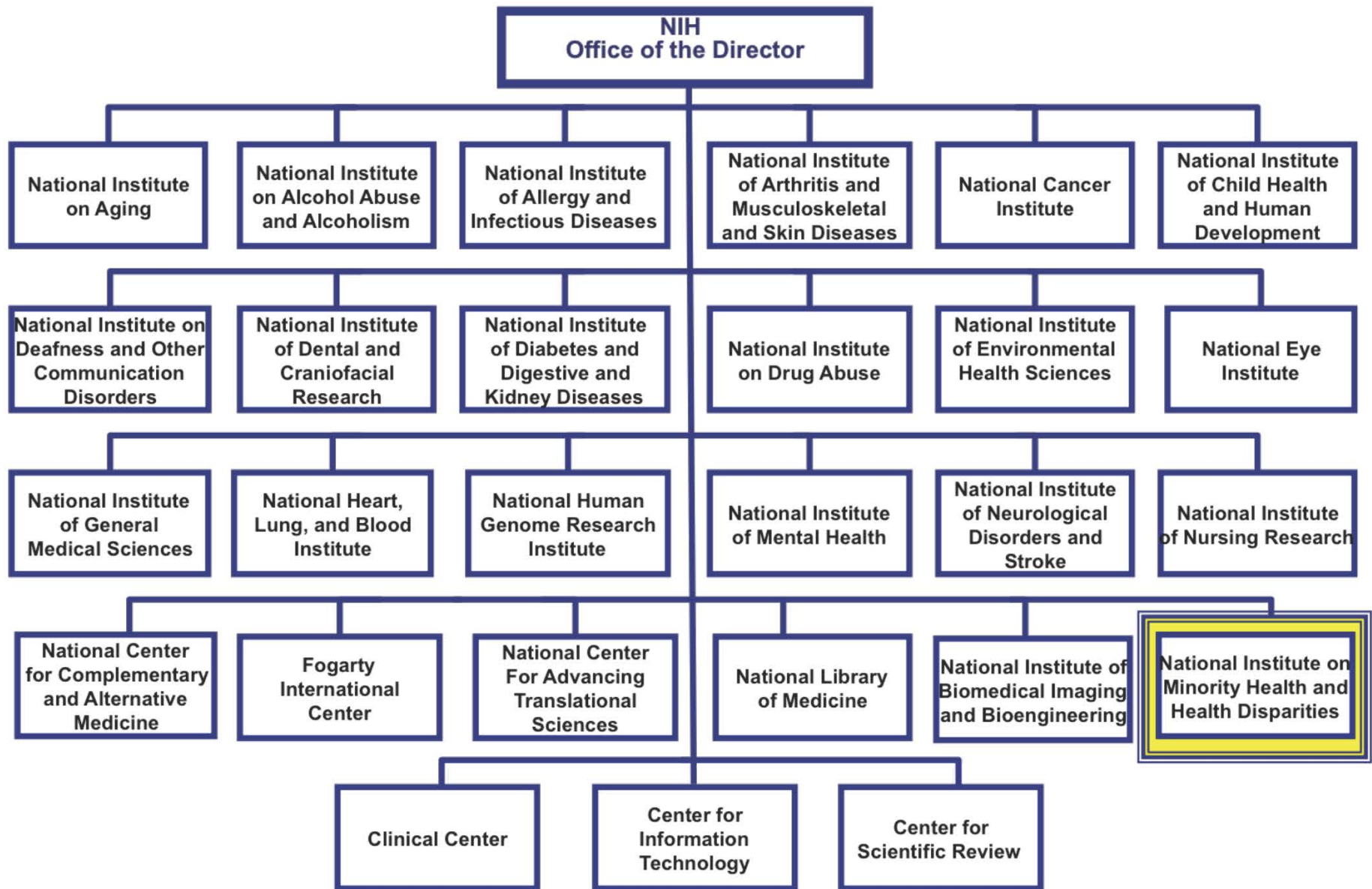
National Institutes of Health (NIH)



What's To Come

- News from NIH
- News and notes from NIMHD
- Budget and legislative updates
- Grants and programs

News from NIH



NCCAM is now NCCIH

- Effective December 17, the National Center for Complementary and Alternative Medicine has a new, Congressionally mandated name:

The National Center for Complementary and Integrative Health, or NCCIH



President Obama Visits NIH



- President Obama visited NIH in December to congratulate scientists for delivering a potential Ebola vaccine
- He also emphasized that scientific research will help fight global health threats

Precision Medicine Initiative

- President Obama recently unveiled the **Precision Medicine Initiative** — a bold new enterprise to revolutionize medicine and generate the scientific evidence needed to move the concept of precision medicine into every day clinical practice.
- Precision medicine is an emerging approach for disease treatment and prevention that takes into account individual variability in genes, environment, and lifestyle for each person.
- While significant advances in precision medicine have been made for select cancers, the practice is not currently in use for most diseases. Many efforts are underway to help make precision medicine the norm rather than the exception.



The **NEW ENGLAND JOURNAL of MEDICINE**

January 30, 2015

Perspective

A New Initiative on Precision Medicine

Francis S. Collins, M.D., Ph.D., and Harold Varmus, M.D.

“Tonight, I’m launching a new Precision Medicine

The proposed initiative has two main components: a near-term focus on cancers and a longer-term aim to generate knowledge applicable to the whole range

Unraveling Life's Mysteries through Basic Research: The BRAIN Initiative

Last September, NIH made its first investment in the initiative's 12-year scientific vision with 58 awards

FY 2016 request totals \$135M – increase of \$70M

Funding will be used to:

- Develop innovative technologies to advance basic neuroscience
- Generate methods for classifying the brain's diverse cells/circuits
- Create/optimize technologies for recording and modulating groups of cells that act together in circuits
- Develop new, non-invasive tools for human brain imaging



Rendering of the John Edward Porter Neuroscience Research Center, NIH

NIH Common Fund *Enhancing Diversity in the NIH Biomedical Research Workforce*

■ Building Infrastructure Leading to Diversity (BUILD):

- Experimental training awards: how to attract & retain students from diverse backgrounds into biomedical research workforce

■ National Research Mentoring Network (NRMN):

Nationwide network of mentors from variety of disciplines:

- Define best practices for mentoring at all career stages
- Training for mentors
- Networking & professional development for mentees

■ Coordination and Evaluation Center (CEC):

- Rigorously evaluate BUILD and NRMN programs to determine **WHAT WORKS AND FOR WHOM**
- Dissemination of successful training & mentoring strategies


Awardees will work together as a consortium in partnership with the NIH

NIH Common Fund *Enhancing Diversity in the NIH Biomedical Research Workforce*



News and Notes from NIMHD

Expanding Communications



National Institute on Minority Health and Health Disparities

The Health Disparities Courier

December 2014

NATIONAL INSTITUTE ON MINORITY HEALTH AND HEALTH DISPARITIES


WELCOME MESSAGE

Welcome to our inaugural issue of The Health Disparities Courier, a communication venue to highlight the wonderful work, exciting research programs and activities, and dedicated people who make up the National Institute on Minority Health and Health Disparities (NIMHD). Each issue will look at a prominent topic in the Director's Update and provide news about administrative, operational, legislative, and budget matters. We spotlight recent staff accomplishments and recognize new and departing staff. Finally, we feature research that is moving health disparities science forward.


We look forward to including news and accomplishments of our NIMHD Advisory Council Members and Friends Network, so please plan to share.

Enjoy our first issue.

Yvonne T. Maddox, PhD
Acting Director



DIRECTOR'S UPDATE



"If not now, when?" was the message that NIH Director Dr. Francis S. Collins offered as he charged NIMHD to proceed forth diligently to address the critical issue of health disparities at our inaugural operational planning meeting in July, which set the upcoming research agenda. NIMHD lies on the precipice of change.

The diversity of the U.S. population continues to expand as the scarcity of targeted health disparities research has progressed minimally in the last 20 years. This lack of progress can be contributed, in part, to the blending of minority health and health disparities, despite encompassing separate research fields. This approach has resulted in the science of health disparities research not being well defined. The nascent field lacks the foundational theories and tools, such as research parameters, models,

the determinants; however, the interactive patterns of these health determinants remain a speculation. Health disparities research must focus on a strategy that examines the integration of behavioral risk factors, biological risks factors, co-morbidities (infectious disease and chronic illness), protective and/or resiliency factors, health care/research system factors, environmental/physical determinants, social determinants, and health-related quality of life in order to fully understand how health disparity conditions exist. By understanding these complexities scientifically, appropriate interventions can be designed and offered at the right time in order to impact the burden of health disparities.

As NIMHD implements the charge and fulfills a unique role at NIH, tools and measures that can discern the impact of the research on health disparities must be scientifically



National Institute on Minority Health & Health Disparities





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<https://www.facebook.com/NIMHD>

NIMHD's Inaugural Staff Recognition Ceremony



- December 8, 2014, Wilson Hall, NIH Campus
- To recognize the commitment and achievements of NIMHD staff who made significant contributions to advance NIMHD's mission in 2014



Collaborations and Community Engagement



Selected NIMHD Trans-NIH Collaborations

NIH Partner	Activity
NICHD/OAR	Adolescent Medicine Trials Network
NIAID/OAR	Center for AIDS Research
NIDA	Adolescent Brain Cognitive Development (ABCD) Initiative
NIEHS	Centers of Excellence on Environmental Health Disparities
NHGRI	Inclusion of diverse populations in genomic databases
OBSSR	Training in Population Health Science
DIR/OD	Medical Research Scholars Program

Highlighted Trans-NIH Activities

- **Centers of Excellence on Environmental Health Disparities (P50)**
Proposed research is expected to develop innovative approaches to understand environmentally-driven health disparities and improve access to healthy environments for vulnerable populations and communities. Participating organizations include NIMHD, NIEHS, NICHD and the EPA's National Center for Environmental Research.
- **Adolescent Medicine Trials Network for HIV/AIDS Interventions (ATN)**
The ATN is the only national, multicenter research network devoted to the health and well-being of HIV-infected and at-risk adolescents and young adults. With funding from OAR, participating organizations include NIMHD, NICHD, NIDA, NIMH and NIAID.

Inclusion of Diverse Populations in Clinical Trials

COMMENT

INEQUALITY Frank discussion about differences strengthens research **p.303**

ETHICS A call for sensitive cross-cultural mental-health research **p.304**

RACE Three very different books miss the point: social equality **p.306**

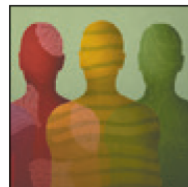
AUTUMN BOOKS Steven Pinker on style, E. O. Wilson on life, Naomi Klein on money **p.309**



Common asthma drugs can work less well for children of some ethnicities.

Missing patients

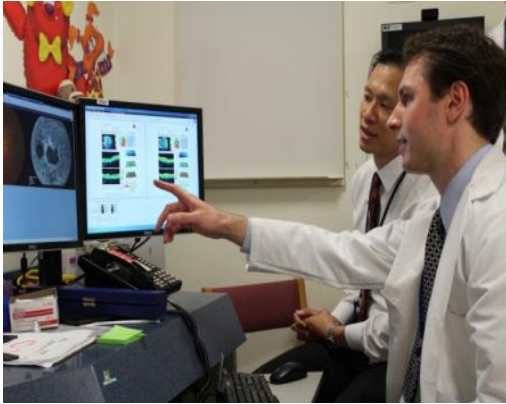
Effective clinical studies must consider all ethnicities — exclusion can endanger populations, says **Esteban G. Burchard**.



DIVERSITY

A *Nature* and *Scientific American* special issue nature.com/diversity

NIH Medical Research Scholars Program (MRSP)



- A comprehensive, year-long residential research enrichment program for medical, dental, and veterinary students
- Located on the **NIH Intramural** Research campus in Bethesda, MD
- Co-sponsored by NIMHD and other NIH institutes, and private partners
- Scholars are engaged in a mentored basic, translational, or clinical research project in an area that matches their personal interests and career/research goals

Collaborations and Community Engagement

Fuel Up to Play 60

GENYOUth Foundation, National Dairy
Council and the National Football
League



*Brother You Are on My Mind:
Changing the National Dialogue
Regarding Mental Health Among
African American Men*

Omega Psi Phi, Inc.
Men's Mental Health Initiative

Workshops and Conferences Held

■ ***National Hispanic Medical Association Consensus Summit on Building Diversity in Medicine and Research***, January 29, 2015

- Shared lessons learned, best practices, and innovative strategies and recommendations for next steps toward enhancing workforce diversity in medicine, biomedical, and behavioral research
- Discussed NIH's new integrated approach to expanding diversity in biomedical research careers, including a renewed commitment to ensuring fairness in peer review

■ **Research Forum on HIV/AIDS Behavioral Intervention to Prevent HIV Among Diverse Young MSM**, February 13, 2015

- Discussed current research and challenges regarding behavioral interventions to prevent HIV infection in young MSM from diverse backgrounds
- Identified strategies to facilitate and increase collaboration among researchers and affected communities in developing behavioral interventions and dissemination of interventions

NIMHD American Indian and Alaska Native Research Forum

- Expanding the pool of scientists, researchers and health professionals with the American Indian and Alaska Native community is essential to addressing the many interrelated causes of disease and ill health in this population
- First-time research forum to showcase NIH-funded American Indian/Alaska Native researchers and their contributions to biomedical research.

Contact:

Dr. Dorothy M. Castille
Program Officer, NIMHD
(301) 402-1366
Dorothy.Castille@nih.gov

**National Institute on Minority Health and Health Disparities
American Indian/Alaska Native (AI/AN)
Research Forum**

**November 20, 2014
8:00 a.m. - 5:00 p.m.**
Porter Neuroscience Research Center
NIH Main Campus, Building 35, Room 620
Bethesda, MD

Presenters

	Spero M. Manson, PhD Distinguished Professor School of Public Health University of Colorado Denver	Pursuing Rigorous Science of Local Benefit: 35 Years of Research in Indian Country
	Valarie Blue Bird Jernigan, DrPH, MPH Associate Professor, Health Promotion Sciences College of Public Health University of Oklahoma Health Sciences Center Tulsa, Oklahoma	Community-Based Participatory Policy Work to Address Obesity in Tribal Nations: The THRIVE Study
	Stacy M. Rasmus, PhD Research Assistant Professor The Institute of Arctic Biology and Center of Alaska Native Health Research University of Alaska Fairbanks	Engaging Alaska Native Youth and Communities in Research to Reduce Disparities in Alcohol Abuse and Suicide in the Arctic
	Jeffery Henderson, MD, MPH President and CEO Black Hills Center for American Indian Health Rapid City, South Dakota	The Curious Case of Cancer in American Indians/Alaska Natives
	Bonnie Duran, DrPH Associate Professor and Adjunct Associate Professor School of Social Work and Department of Health Services, School of Public Health University of Washington	Community Engagement as a Path to Health Equity: Promoting Both Culture-Centered and Evidence-Based Interventions in 'Indian Country'
	Stacey Jolly, MD, MAS, FACP Assistant Professor of Medicine Cleveland Clinic Lerner College of Medicine Case Western Reserve University	Chronic Disease Research Among American Indians and Alaska Natives

Panelist

Dr. Spero M. Manson (Pembina Chippewa) University of Colorado Denver	Dr. Denise Dillard (Inupiat) South Central Foundation
Dr. Jeffrey Henderson (Lakota, Cheyenne River Sioux Tribe), Black Hills Center for American Indian Health	Dr. Ronny Bell (Lumbee) Wake Forest University School of Medicine
Dr. Maria Yellow Horse Brave Heart (Hunkpapa, Oglala Lakota) University of New Mexico	Dr. Jada Brooks (Lumbee) University of North Carolina, Chapel Hill

NIH National Institute on Minority Health and Health Disparities

Upcoming Workshops and Meetings

■ ***Preventing Disparities in Chronic Diseases: Community-based Multilevel Interventions***, March 30-31, 2015

- Multilevel interventions are interventions with multiple components designed to affect factors in two or more levels of the local ecology
- This scientific workshop will focus on disparities in chronic disease prevention, with the goal to identify research gaps and opportunities for targeted initiatives

■ ***Training in Interdisciplinary Population Health Science: A Vision for the Future, Institute of Medicine Roundtable***, June 2015

- Population health science is an interdisciplinary science that develops an integrated understanding of the determinants of health and health disparities, and therefore holds promise for advancing the science of health disparities
- Meeting outcome: A white paper that will provide a review of the needs, lessons learned, and challenges for training in interdisciplinary population health science

Budget and Legislative Updates

Appropriations Update

- FY 2015 Budget (PL-113-235) signed by President Obama on December 16 funds through September 30, 2015. NIH received \$30.1B, an increase of 0.5% from FY 2014
- NIMHD's budget for FY 2015 is \$270.97M
- The NIH FY 2016 President's Budget request is \$31.3B, an increase of \$1B over FY 2015
- NIMHD, in the FY 2016 request, receives \$281.55M



FY 2016 Request:

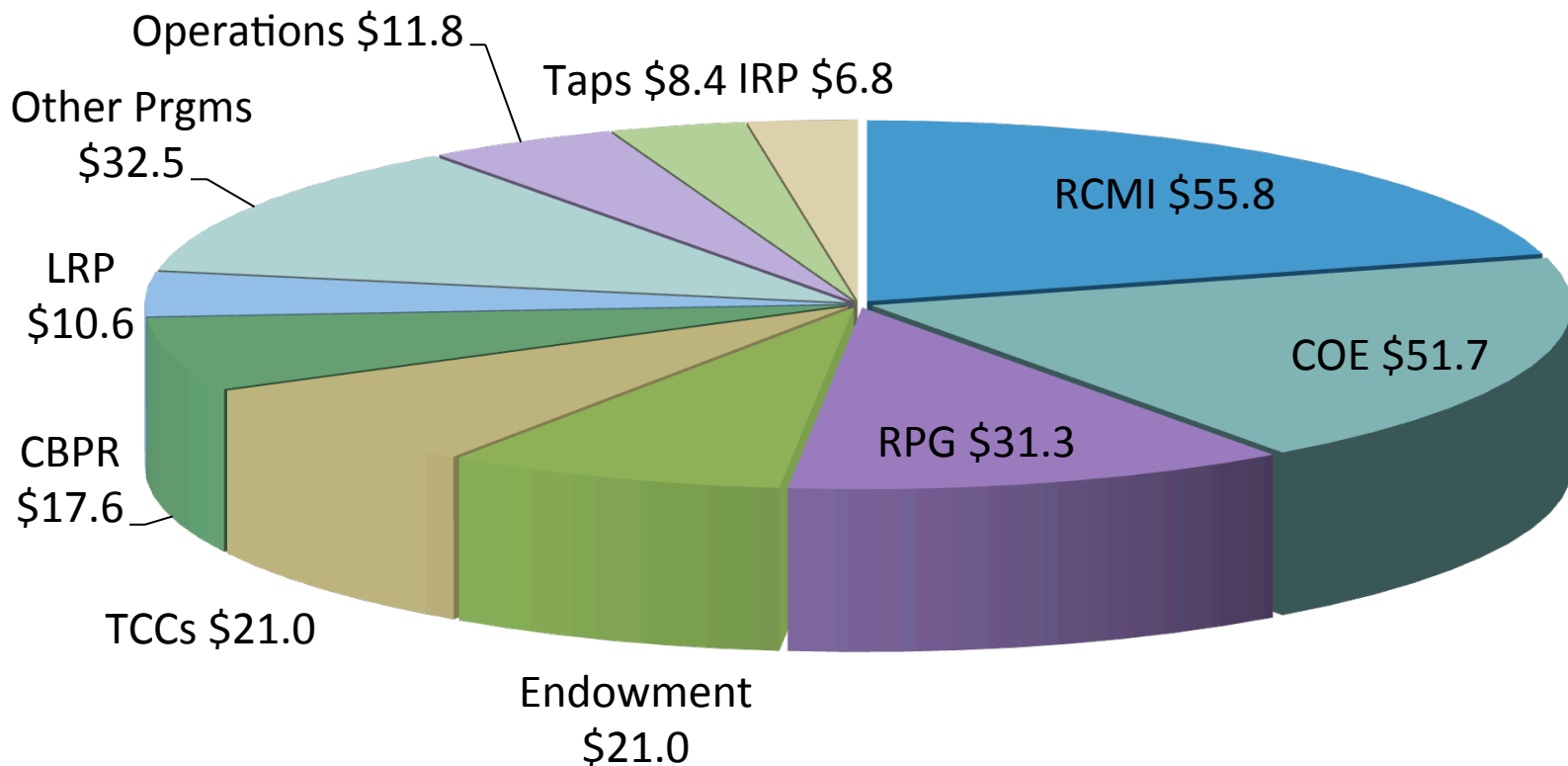
Highlights of Targeted Increases

Precision Medicine Initiative*	\$200M
• <i>Cancer</i>	\$70M
• <i>Other Diseases</i>	\$130M
Antimicrobial Resistance (NIAID)	\$100M
Flu Vaccine (NIAID)	\$20M
BRAIN Initiative*	\$70M
Alzheimer's Disease (NIA)	\$50M

* Multiple ICs participate in the initiative.

FY 2014 NIMHD Actual Funding Distribution

\$268.5M

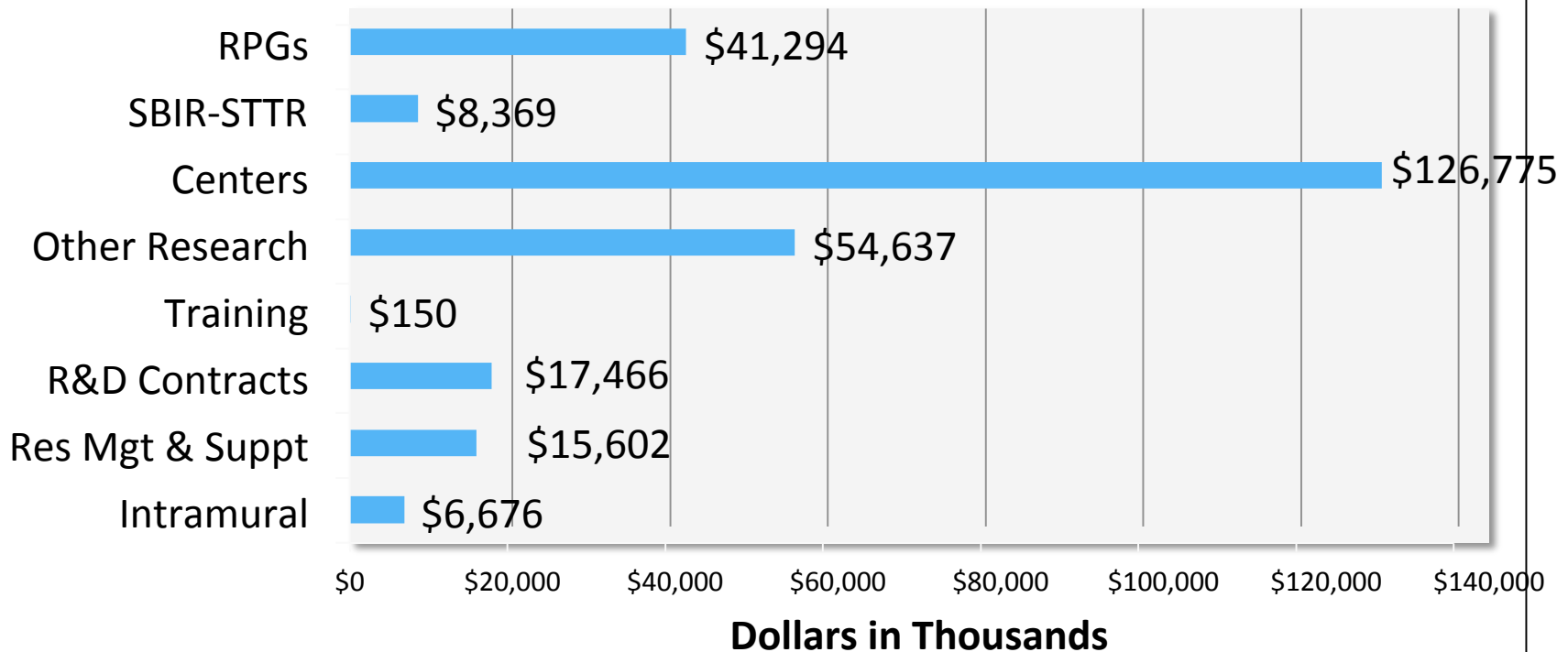


Other Programs include: SBIR/STTR \$8.1M; Cooperative Agreements \$7.4M; MHIRT \$5.8M; Collaborations \$5.2M; Science Education \$2.7M; BRIC \$2.2M and DREAM \$1.1M. IRP includes taps of \$3.1M.

FY 2015 NIMHD Budget by Mechanism

Dollars in Thousands

Direct Budgetary Resources = \$270,969



NIMHD Outreach and Legislative Activities

- On December 10, 2014, the inaugural meeting of the NIMHD Outreach Coalition was held to share information about the NIMHD's history, mission, and research. Subsequently, the Friends of NIMHD has been formed, chaired by Dr. Lisa Simpson, President and CEO of AcademyHealth.
- On January 13, 2015, at the request of Representative Robin Kelly (D-IL), the Chair of the Congressional Black Caucus Health Braintrust, Dr. Maddox, Acting Director, NIMHD, briefed the Representative about the research mission of the Institute.
- On April 2, 2015, Dr. Richard H. Carmona, the 17th U.S. Surgeon General and the President of the Canyon Ranch Institute (CRI) Board of Directors, will visit NIMHD to discuss possible areas of collaboration with CRI.

Grants and Programs

Assessing the NIMHD Research Endowment Program

- Mandated by the Minority Health and Health Disparities Research and Education Act of 2000 (P.L. 106-525)
- Supports endowments of academic institutions to build research infrastructure and recruit, train, and maintain a diverse student body and faculty
- During the past 15 years, 156 awards have been given out totaling \$410M.
- The current program is up for re-competition

Recent Requests for Applications (RFAs)

System-Level Health Services and Policy Research on Health Disparities (R01) <http://grants.nih.gov/grants/guide/rfa-files/RFA-MD-15-001.html>

NIMHD Academic Research Enhancement Award: Enhancing Health Disparities Research at Undergraduate Institutions (R15)
<http://grants.nih.gov/grants/guide/rfa-files/RFA-MD-15-002.html>

Technologies for Improving Minority Health and Eliminating Health Disparities (R41/R42)
<http://grants.nih.gov/grants/guide/rfa-files/RFA-MD-15-003.html>

Innovations for Healthy Living - Improving Minority Health and Eliminating Health Disparities (R43)
<http://grants.nih.gov/grants/guide/rfa-files/RFA-MD-15-004.html>

Big Data to Knowledge (BD2K):Enhancing Diversity in Biomedical Data Science (RFA-MD-15-005) (R25)

NIMHD Notices of Participation

- Notice of Participation of NIMHD in PA-13-302 “Research Project Grant (Parent R01)” NOT-MD-14-003
- Notice of Participation of NIMHD in PAR-14-260 “Interventions for Health Promotion and Disease Prevention in Native American Populations (R01)” NOT-MD-15-002



Health Disparities Research

- Examines the etiology of differences
- Considers tailored interventions
- Validates effectiveness



Health Determinants

A Focus of Health Disparities Research

Health Disparities Research

Health Determinants

Racism

Biology

Neighborhoods

Hopelessness

Unemployment

Poverty

Genetics

Stress

Limited Access
to Care

Housing

“Medical baggage”

Incarceration rates

Smoking

Fatherless

Substance Use

**Under-
Educated**

households

Lower graduation rates

No Insurance

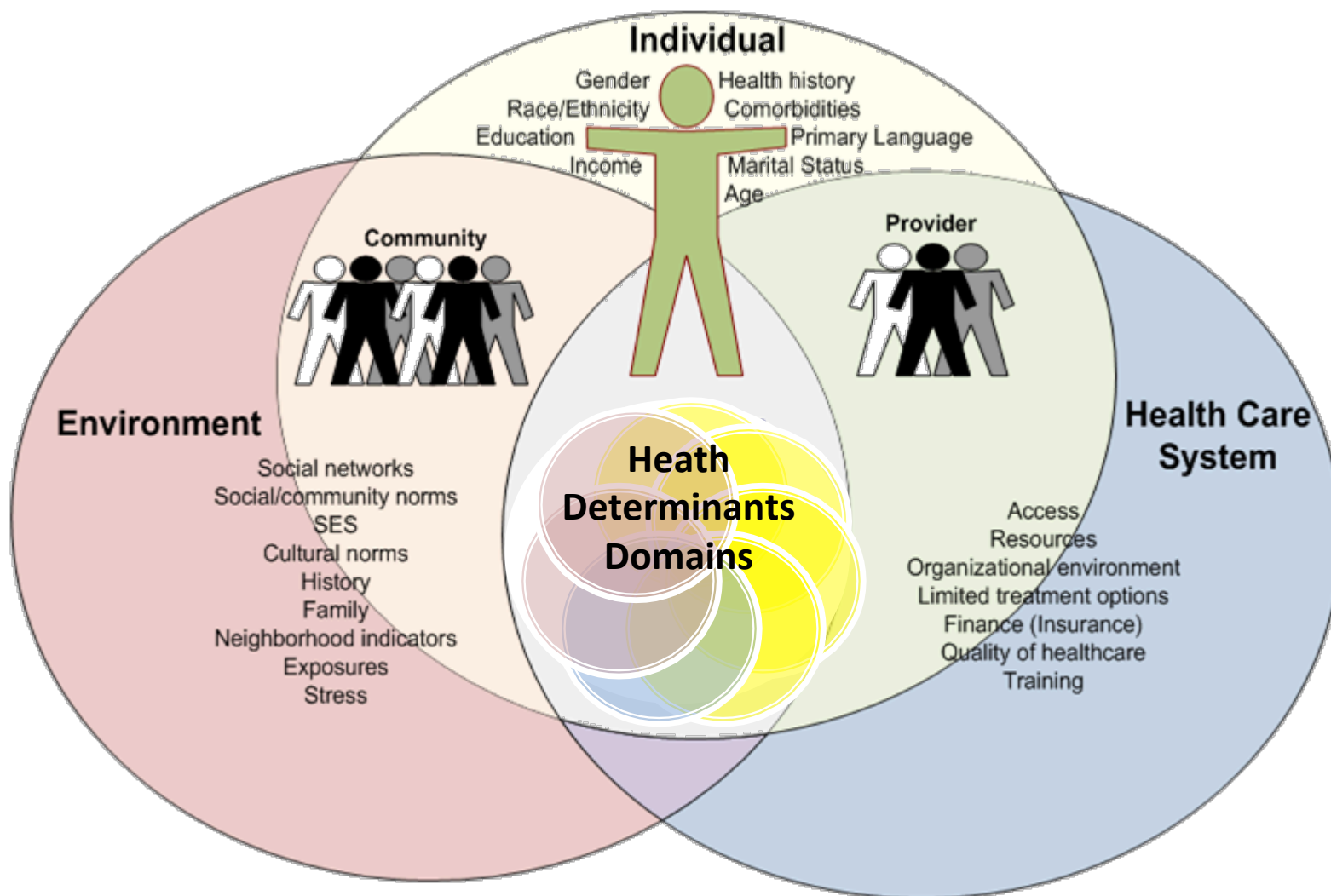
Family Support

Poor Working Conditions

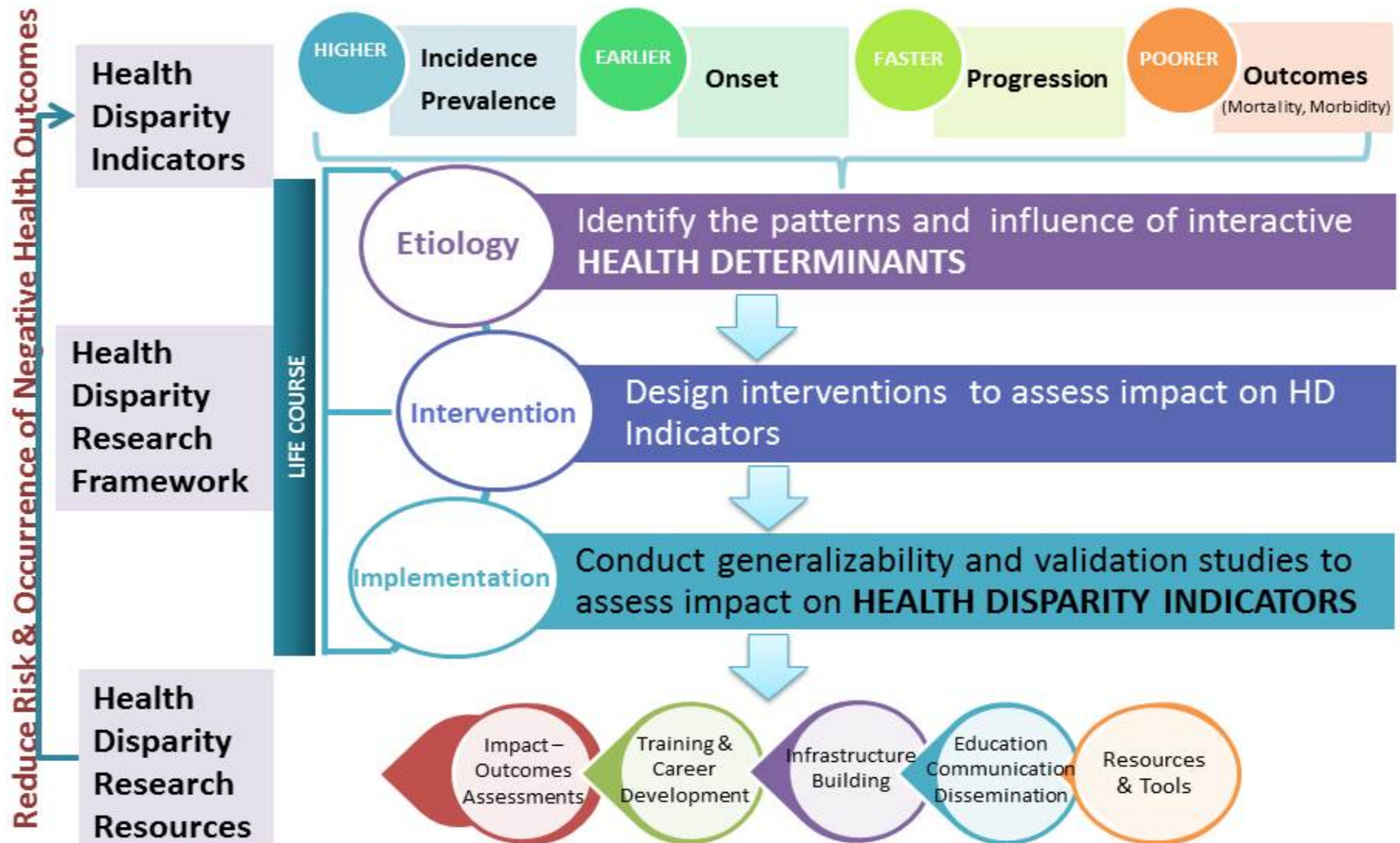
Teen Births

Nutrition

Health Determinants: Complex and Interactive



A Model for Health Disparities Research: Multi-disciplinary Systems Approach Across Life Course



Health Disparities Science Visioning

The Health Disparities **Visioning Initiative**, led by the NIMHD in collaboration with the NIH Institutes and Centers, will bring together diverse voices (scientific and community stakeholder) to generate new perspectives for advancing the study of health disparities.

The overall goal is to develop a transformative health disparities research agenda that defines the science of health disparities for the next decade.

Key Steps

- Presentation to NIH Institute Directors
- Staff Planning and Retreat
- NIMHD Advisory Council Discussion
- Workshops with extramural scientific community
- Summary White Papers
- Large Meeting (Summit)
- Science Vision Statement Developed
- Publication of the Science Vision Statement
- Vision Statement to inform NIH Strategic Plan



National Institute on Minority Health and Health Disparities

Contact Us

Contact Us At:

National Institute on Minority Health and Health Disparities
National Institutes of Health
6707 Democracy Boulevard, Suite 800
Bethesda, MD 20892-5465

Telephone:

301-402-1366

Web:

www.NIMHD.NIH.gov

Join our Listserv:

nimhdinfo@nimhd.nih.gov

Discussion...

Comments, questions?